



Intel® Pentium® M Processor with Intel® 855GME MCH and Intel® 6300ESB ICH Chipset Development Kit

Product Overview

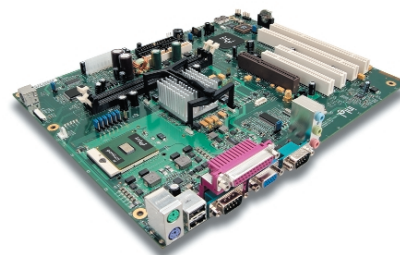
The Intel® Pentium® M Processor with Intel® 855GME MCH and Intel® 6300ESB ICH Chipset Development Kit offers an excellent choice for developers of embedded form factor applications, particularly within the traditional embedded market segments. The Intel Pentium M processor utilizes a new microarchitecture to meet the current and future demands of high-performance, low-power embedded computing, while remaining software-compatible with previous members of the Intel® microprocessor family.

The Intel Pentium M processor/Intel 855GME MCH/Intel 6300ESB ICH chipset platform provides the performance and chipset graphics capability necessary to support dual independent displays, making it ideal for Point of Service (POS), kiosks, industrial automation, and telematics applications. The platform enables outstanding instruction execution/watt to support high-performance and low-power designs, while providing scalability from the Ultra Low Voltage Intel® Celeron® M processor through the Intel Pentium M processor 745 with 2 MB of L2 cache.

Product Highlights

Evaluation Board

- Intel Pentium M processor at 1.6 GHz with a 400 MHz Front Side Bus (FSB) and μ FC-PGA packaging. Also supports the Intel Pentium M processor 745 with 2 MB L2 Cache in the same μ FC-PGA package, and the Ultra Low Voltage Intel Celeron M processor in FC-BGA packaging
- Intel 855GME Graphics Memory Controller Hub (GMCH) supporting 200/266/333 MHz DDR SDRAM devices, addressable up to 2 GB with high-density 512 Mb technology
 - DVOB and DVOC



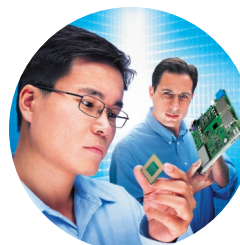
- Dedicated LVDS interface
- Standard VGA
- AMI evaluation BIOS
- Supports both ECC and non-ECC memory
- Intel 6300ESB I/O Controller Hub (ICH)
 - PCI-X (66 MHz), PCI, USB 2.0, SATA/150, ATA/100
 - Integrated dual-stage watchdog timer
 - Integrated serial interface unit

Board Peripheral Features

Super I/O to support floppy, PS/2 mouse, keyboard, parallel port, and serial port

User-Accessible On-Board Connectors

- PS/2 mouse, keyboard, serial/parallel port
- VGA
- LVDS connector
- Four USB 2.0 ports
- Two SATA connectors
- Primary and secondary IDE connectors
- Two 32-bit PCI slots
- Two 64-bit PCI-X slots
- One AGP slot
- ITP connector
- Two DDR DIMM slots
- Floppy connector



run
Better, faster
and further.

Included in the Kit

- Development board
- CPU thermal solution
- Intel Pentium M processor
- One 128 MB/266 MHz DDR DIMM
- ATA hard drive
- Cables
- AMI evaluation BIOS loaded on the FWH

Product Benefits

The Intel Pentium M Processor with Intel 855GME MCH and Intel 6300ESB ICH Chipset Development Kit is an evaluation kit with hardware and supporting documentation designed for use in embedded computing applications. This and other development kits from Intel provide fully working products with a range of performance options that can be modified or used immediately for product development. These kits provide a platform with a validated processor/chipset combination, allowing software vendors to test BIOS and operating system software.

With this kit, developers can design on a single board to provide a range of performance options. This can reduce design and validation efforts, lower the total cost of ownership by reducing inventory and manufacturing costs, and facilitate faster time-to-market.

Software Overview

In order to provide customers with a complete development environment within the development kit, Intel continually strives to provide and/or enable platforms that are compatible with customer applications and operating systems. Any software or firmware provided in the kit is subject to change without notice. For the most recent updates, please refer to the Intel Pentium M Processor with Intel 855GME MCH and 6300ESB ICH Chipset Development Kit Web site at <http://developer.intel.com/design/intarch/devkits/6300ESB.htm>

Development Kit Ordering Information

Order Code	Description
EIDPM855FBDVKT	Intel® Pentium® M Processor with Intel® 855GME MCH and Intel® 6300ESB ICH Chipset Development Kit

Intel Access

Developer's Site:	developer.intel.com
Embedded Intel® Architecture Home Page:	www.intel.com/design/intarch
Intel Technical Documentation Center:	www.intel.com/go/techdoc (800) 548-4725 7 a.m. to 7 p.m. CST (U.S. and Canada) International locations please contact your local sales office.
General Information Hotline:	(800) 628-8686 or (916) 356-3104 5 a.m. to 5 p.m. PST

For more information, visit the Intel Web site at: developer.intel.com

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